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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/068,685	02/05/2002	Dana W. Seniff	P48-1305-1	8778

7590 09/15/2003

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EXAMINER

PRONE, JASON D

ART UNIT	PAPER NUMBER
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3724

DATE MAILED: 09/15/2003

4

Please find below and/or attached an Office communication concerning this application or proceeding.

N,K

Office Action Summary

Application No.

10/068,685

Applicant(s)

SENIFF ET AL.

Examiner

Jason Prone

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-5 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 05 February 2002 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). ____.
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4. 6) ☐ Other:

DETAILED ACTION

Drawings

1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: On page 6 line 17, item "34". A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1, 3, and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Logan.

Logan discloses the same invention including providing sheet-type work material (11) having a laminated construction wherein a layer of flexible material is coupled to a carrier layer of semi-rigid material (Fig. 7), providing a cutting apparatus (40) having a cutting surface (Fig. 3), a drive means for moving the work material relative to the cutting surface (14) in response to command signals generated by a controller coupled to the cutting apparatus (7), a cutter head positioned adjacent to the cutting surface for movement in response to the command signals (48), a cutting blade coupled to the cutter head (46), that the cutting blade is positionable between a non-working position

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wherein the cutting blade is located adjacent said work material (Fig. 1), and a working position wherein said cutting blade engages said work material (Fig. 3), programming the controller with graphic cutting data and carrier layer cutting data (Fig. 8), presenting the coating blanket material to the cutting apparatus such that the carrier layer engages the cutting surface (Fig. 2), causing the drive means to move the coating blanket material back and forth over the cutting surface in response to the command signals issued from the controller (Fig. 1), moving the cutter head and the cutting blade between said non-working and working positions to selectively cut through portions of said flexible layer in a single pass during a cutting operation (Fig. 1), causing the blade to engage the carrier layer and make multiple cutting passes along lines of cut defined by command signals issued from the controller in accordance with the carrier layer cutting data (Fig. 1), thereby selectively cutting through portions of the carrier layer (Fig. 11a), removing the coating blanket material from the cutting apparatus (Fig. 12), separating a coating blanket from the coating blanket material along the lines of cut extending through the carrier layer (Fig. 9), that the cutting apparatus includes a frame (2) and the cutting surface is defined by a roller coupled for rotation to the frame (65), that the cutter head is movable along a longitudinal direction defined by the roller in response to the command signals issued from the controller (Fig. 1), wherein the step of causing the blade to engage the carrier layer further includes creating a plurality of first spaced apart slits extending through the carrier layer along a first pair of opposing edges which in part define the periphery of the coating blanket (19), a first pair of opposing edges being approximately perpendicular to a longitudinal axis defined by the

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roller (Fig. 11b), creating a plurality of second spaced apart slits extending through the carrier layer along a second pair of spaced apart opposing edges approximately parallel to the longitudinal axis and approximately perpendicular to the first pair of opposing edges (19), that the first and second pairs of opposing edges together define the periphery of the coating blanket (Fig. 9), that the second spaced apart slits allow the work material to overhang the roller as it is advanced thereover without the semi-rigid nature of the carrier layer causing the coating blanket to separate from the work material (Fig. 1), that the first pair of opposed edges each defining areal portions of the carrier sheet positioned between successive slits, and creating a plurality of second spaced apart slits further includes scoring the areal portions (Fig. 11b).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Logan in view of Pilkington. Logan discloses the invention but fails to disclose moving the blade in accordance with command signals issued from the controller such that a tip portion thereof touches a reference surface located on the cutting apparatus, sensing the location of the tip portion and the blade upon touching the reference surface, storing the sensed location of the cutting blade and tip portion relative to the reference surface in the controller, adjusting an amount by which the tip portion of the cutting blade extends

into the work material in accordance with the sensed location. Pilkington teaches moving the blade in accordance with command signals issued from the controller such that a tip portion thereof touches a reference surface located on the cutting apparatus, sensing the location of the tip portion and the blade upon touching the reference surface, storing the sensed location of the cutting blade and tip portion relative to the reference surface in the controller, adjusting an amount by which the tip portion of the cutting blade extends into the work material in accordance with the sensed location (Column 1 line 57- Column 2 line 27). Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to have provided Logan with the characteristics taught by Pilkington to allow for a more precise cut to take place.

6. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Logan in view of Nelson. Logan discloses the invention but fails to disclose sensing the amount of pressure exerted by the cutting blade in a direction approximately normal to the work material, adjusting the pressure a desired amount to cut through the flexible layer in a single pass and into the carrier layer on each of the multiple cutting pass. Nelson teaches sensing the amount of pressure exerted by the cutting blade in a direction approximately normal to the work material, adjusting the pressure a desired amount to cut through the flexible layer in a single pass and into the carrier layer on each of the multiple cutting pass (Abstract). Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to have provided Logan with the characteristics taught by Nelson to allow for greater longevity of the cutting blade.

Conclusion

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7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Müller et al., Gerber et al., Logan et al., Gerber, Wood et al., Ominato, Moretti, Sunohara et al., and Schnetzer.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason Prone whose telephone number is 703-605-4287. The examiner can normally be reached on 7:30-5:00, Mon - (every other) Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Allan N. Shoap can be reached on 703-308-1082. In lieu of mailing, it is encouraged that all formal responses be faxed to 703-872-9302.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1148.



JP
September 10, 2003



Allan N. Shoap
Supervisory Patent Examiner
Group 3700